

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

HAER
NJ,
7-ORAN,
4-C-

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories, Main Building)
Main Street and Lakeside Avenue
West Orange
Essex County
New Jersey

HAER No. NJ-70-C

Jet Lowe, HAER Staff Photographer, March, 1986

See HAER No. NJ-70 for further information.

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|------------|---|
| NJ-70-C-1 | Interior, first floor. |
| NJ-70-C-2 | View of shop from platform holding two 40-horsepower electric direct-current motors. These provide power for the shop. Left foreground shows a display of Edison storage batteries which had been shown in the entryway of Building No. 6 by the Edison company during the 1930s through 1950s. |
| NJ-70-C-3 | Interior, first floor. |
| NJ-70-C-4 | Interior, first floor. |
| NJ-70-C-5 | Interior, first floor. |
| NJ-70-C-6 | Interior, first floor. |
| NJ-70-C-7 | Interior, first floor. |
| NJ-70-C-8 | Center background shows two forty-horsepower direct-current electric motors installed in 1904 to provide power to two drive shafts for first floor machine shops. |
| NJ-70-C-9 | Interior, first floor. |
| NJ-70-C-10 | Interior, first floor. |
| NJ-70-C-11 | Interior, first floor. |
| NJ-70-C-12 | Interior, first floor. |
| NJ-70-C-13 | Interior, first floor. |
| NJ-70-C-14 | Interior, first floor. |
| NJ-70-C-15 | Side entry to laboratory from courtyard. Time clock used to record employees' work times. |

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories, Main Building)
Index to Photographs
HAER No. NJ-C-70 (Page 2)

NJ-70-C-16	Interior, first floor.
NJ-70-C-17	Interior, first floor.
NJ-70-C-18	Interior, first floor.
NJ-70-C-19	Interior, first floor.
NJ-70-C-20	Interior, first floor.
NJ-70-C-21	Interior, first floor.
NJ-70-C-22	Interior, first floor.
NJ-70-C-23	Interior, first floor.
NJ-70-C-24	Interior, first floor.
NJ-70-C-25	View shows stairs to second floor machine shop and belts from main shaft going down into basement where they power machinery for elevator.
NJ-70-C-26	Interior, first floor.
NJ-70-C-27	Interior, first floor.
NJ-70-C-28	Interior, first floor.
NJ-70-C-29	Interior, first floor.
NJ-70-C-30	Interior, first floor.
NJ-70-C-31	Interior, first floor.
NJ-70-C-32	Interior, first floor.
NJ-70-C-33	Interior, first floor.
NJ-70-C-34	Interior, first floor.
NJ-70-C-35	To left of center is freight elevator used to move materials to the upper floors of the building. This elevator is also powered via the belts and drive shafts which operate the machine tools. Sign on elevator reads "For Mr. Edison's Personal Use Only;" according to rumor, Edison was encouraged to use the elevator as he grew older, but refused. The elevator is designed for freight only.

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories, Main Building)
Index to Photographs
HAER No. NJ-C-70 (Page 3)

NJ-70-C-36	Interior, first floor.
NJ-70-C-37	Drill press in foreground is one of few machine tools in operating condition which is still operated occasionally for public demonstrations.
NJ-70-C-38	Unusual large circular planing machine for finishing metal wheels.
NJ-70-C-39	Interior, first floor.
NJ-70-C-40	Grinding machine in operating condition and used for public demonstrations.
NJ-70-C-41	Interior, first floor.
NJ-70-C-42	Interior, first floor.
NJ-70-C-43	Interior, first floor.
NJ-70-C-44	Interior, first floor.
NJ-70-C-45	Interior, first floor.
NJ-70-C-46	Interior, first floor.
NJ-70-C-47	Large planer for finishing smooth, flat surfaces of large pieces of metal; in operating condition and used for public demonstrations.
NJ-70-C-48	Interior, first floor.
NJ-70-C-49	Interior, first floor.
NJ-70-C-50	Interior, first floor.
NJ-70-C-51	Interior, first floor.
NJ-70-C-52	Interior, first floor.
NJ-70-C-53	Stock room, just off the large first floor machine shop. Here were stored various cutting edges and drill bits used on the machines. Some raw materials were stored here as well, along with nuts and bolts, machine screws, etc.

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories, Main Building)
Index to Photographs
HAER No. NJ-C-70 (Page 4)

NJ-70-C-54	Interior, first floor.
NJ-70-C-55	Interior, first floor.
NJ-70-C-55	Interior, first floor.
NJ-70-C-56	Interior, first floor.
NJ-70-C-57	Interior, first floor.
NJ-70-C-58	Interior, first floor.
NJ-70-C-59	Interior, second floor.
NJ-70-C-60	Interior, second floor.
NJ-70-C-61	Interior, second floor.
NJ-70-C-62	Interior, second floor.
NJ-70-C-63	Interior, second floor.
NJ-70-C-64	Interior, second floor.
NJ-70-C-65	Large loudspeaker horns and crated Edison radios from 1929 are stored in a side room on the third floor.
NJ-70-C-66	"Music Room" now used for storage of upright, console Edison phonographs, third floor.
NJ-70-C-67	Miscellaneous artifacts relating to experiments with talking motion pictures about 1912 and to loudspeaking phonographs in the 1920s, third floor.
NJ-70-C-68	Apparatus at right, center is prototype for automatic record changing device for acoustical phonographs
NJ-70-C-69	Hallway on third floor; in 1890s this hallway may have been lined with tall glass-fronted cabinets with displays of Edison inventions. Visitors to the lab would be taken up to the third floor to see this exhibit.
NJ-70-C-70	"Music Room," third floor, is used for storage of Edison phonographs; this room was used during the 1920s to audition recording artists and to listen to prospective pieces of music for release on Edison records.

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories, Main Building)
Index to Photographs
HAER No. NJ-C-70 (Page 5)

- NJ-70-C-71 Room used at one point by Charles Edison, the inventor's son, as his office while president of the Edison companies in the 1930s. The large metal tanks to the right are part of a modern halon gas fire suppression system for the building.
- NJ-70-C-72 Interior, third floor.
- NJ-70-C-73 Right, center, are several Edison console radios and radio-phonographs from 1929.
- NJ-70-C-74 One corner of the third floor has examples of Edison motion picture projectors in rather poor condition. Better preserved examples are in storage in Vault #12.
- NJ-70-C-75 Side room of third floor has supply of phonograph parts used to maintain and restore the main collection housed in other areas of the third floor and in Vault #12.
- NJ-70-C-76 On tables in the center of third floor are stored parts to Edison radios, which were produced for a short time between 1928 and 1929.
- NJ-70-C-77 Interior, third floor.
- NJ-70-C-78 Interior, third floor.
- NJ-70-C-79 Interior, third floor.
- NJ-70-C-80 Interior, third floor.
- NJ-70-C-81 One of the larger open spaces on the third floor. This space was used most often for drafting work and for general experimentation. Physical evidence on the ceiling indicates existence of partition walls for smaller rooms, but no photographic or documentary evidence has surfaced to verify this.
- NJ-70-C-82 Edison upright phonographs are stored throughout the third floor; shown here are also storage cabinets containing parts for 1929 Edison radios. Cabinets also contain partial experimental apparatus from other parts of the laboratory.
- NJ-70-C-83 Miscellaneous artifacts stored on the third floor; from left, center is "personal equation machine" which measures and records the reflex-response time of individuals using telegraph equipment.

Thomas A. Edison Laboratories, Building No. 5
(Thomas A. Edison Laboratories Main Building)
Index to Photographs
HAER No. NJ-C-70 (Page 6)

NJ-70-C-84	Interior, third floor.
NJ-70-C-85	Interior, third floor.
NJ-70-C-86	Interior, third floor.
NJ-70-C-87	At left, center just at edge of photograph are large organization boards with small cardboard cards which can be moved to different slots. Historical photographs show Edison using these boards to manage production of photographs and other items within the Edison companies.
NJ-70-C-88	Interior, third floor.
NJ-70-C-89	Boards at background, left are displays of parts for Edison phonographs which were used in management of production and sales promotions.
NJ-70-C-90	Interior, third floor.
NJ-70-C-91	Interior, third floor.
NJ-70-C-92	Interior, third floor.
NJ-70-C-93	Interior, third floor.